

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/29/98

Date Received: 06/11/98

Project: Metro Self Monitor, PO #M11360

Date Samples Extracted: 06/22/98

Date Extracts Analyzed: 06/22/98

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, ZINC
USING METHOD 6010**

**Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)**

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M11360	0.92	0.58	0.88	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 806071-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	ug/L (ppb)	0.92	0.90	2	0-20
Copper	ug/L (ppb)	0.58	0.51	13	0-20
Nickel	ug/L (ppb)	0.88	0.90	2	0-20
Zinc	ug/L (ppb)	<0.05	<0.05	nm	0-20

Laboratory Code: 806071-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	ug/L (ppb)	5	0.92	101	92	80-120	9
Copper	ug/L (ppb)	5	0.58	97	90	80-120	7
Nickel	ug/L (ppb)	10	0.88	101	97	80-120	4
Zinc	ug/L (ppb)	5	<0.05	101	101	80-120	0

Laboratory Code: Laboratory Control Sample



Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	ug/L (ppb)	5	97	100	80-120	3
Copper	ug/L (ppb)	5	97	100	80-120	3
Nickel	ug/L (ppb)	10	101	102	80-120	1
Zinc	ug/L (ppb)	5	100	99	80-120	1

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

806071
Maskan Lopper AI
6/14/98
1:03 p.m.

Send Report To: Alaska Copper Links Contact: Gerald Thompson
 Company: _____
 Address: 628 Angstrom 501
 City, State, Zip: Seattle WA 98101
 Phone # (206) 382-6679 FAX # (206) 382-4309 Date: 6-11-98

[illegible]

SIGNATURE		PRINT NAME	COMPANY	Date	Time
Relinquished by:		General D. Thompson	ACW	6-11-98	1:03 PM
Received by:		Jennifer Lacomis	F&B Inc	6-11-98	1:03 PM
Relinquished by:					
Received by:					

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

June 29, 1998

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

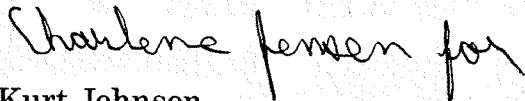
Dear Mr. Thompson:

Included are the results from the testing of material submitted on June 11, 1998 from your Metro Self Monitor, PO #M11360 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson
Chemist

Enclosures
ACU0629R.DOC

FRIEDMAN & BRUYA, INC.

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June 29, 1998

DUPLICATE COPY

INVOICE #98ACU0629-2

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project Metro Self-Monitor, PO# M11360: Results of testing requested
by Gerry Thompson for material submitted on June 11, 1998.

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due

\$ 65.00

FEDERAL TAX ID (b) (6)